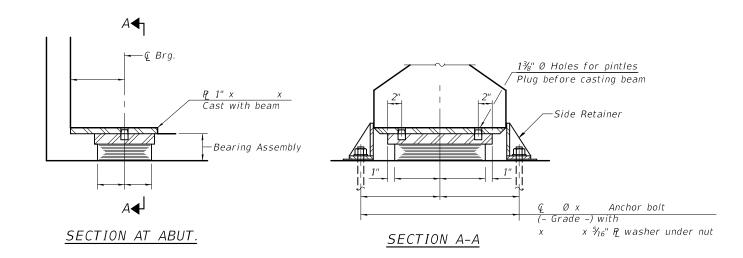
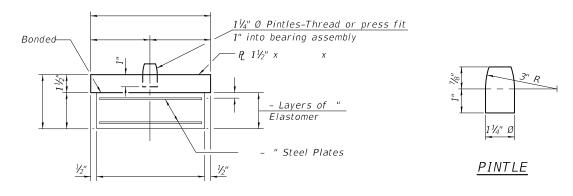
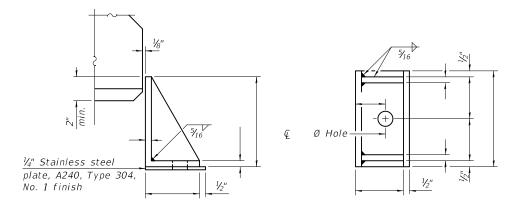
CELL / MODEL NAME	DESCRIPTION			
PI-2E-1	Type I elastomeric bearing	2/17/2017		
PI-2E-2	Type II elastomeric bearing	2/17/2017		
PI-2E-3	Type III elastomeric bearing	2/17/2017		
PI-2FB	Fixed bearing	2/17/2017		



# TYPE I ELASTOMERIC EXP. BRG.



### BEARING ASSEMBLY



# SIDE RETAINER

Equivalent rolled angle with stiffeners will be allowed in lieu of welded plates.

#### Notes:

Anchor bolts shall be ASTM F1554 all-thread (or an Engineer-approved alternate material) of the grade(s) and diameter(s) specified. The corresponding specified grade of AASHTO M314 anchor bolts may be used in lieu of ASTM F1554.

Side retainers and other steel members required for the bearing assembly shall be included in the cost of Elastomeric Bearing Assembly, Type I.

See sheet of for additional details of plate cast with beam.

Beams shall be braced for stability during erection and remain braced until deck is poured and cured.

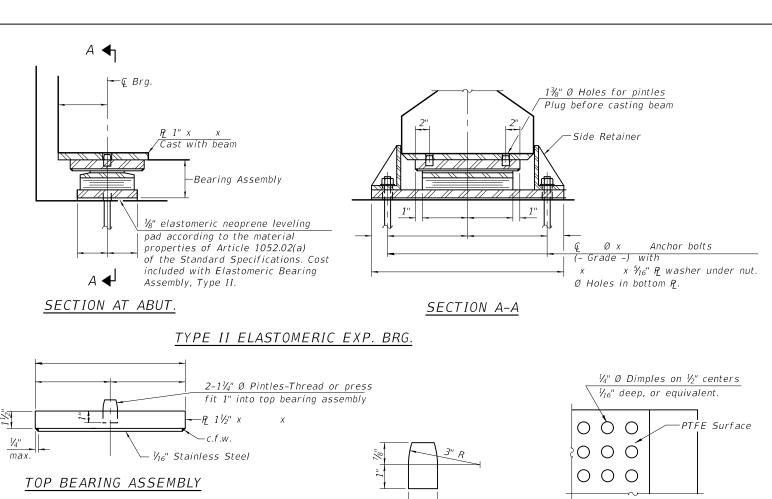
Anchor bolts and side retainers at all supports shall be installed as each member is erected unless an equivalent temporary means of lateral restraint is used.

#### BILL OF MATERIAL

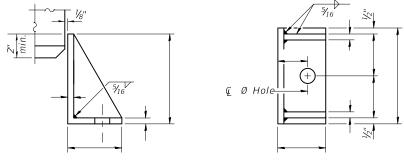
Item	Unit	Total	
Elastomeric Bearing Assembly, Type I	Each		
Anchor Bolts	Each		ì

PI-2E-1 2-17-2017

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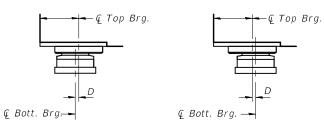


# 



# SIDE RETAINER

Equivalent rolled angle with stiffeners will be allowed in lieu of welded plates.



<u>BELOW 50°F.</u>  $D=V_6$ " per each 100' of expansion for every 15° temp. change from the normal temp. of 50°F.

#### EXPANSION BEARING ORIENTATION

The above diagrams are for informational purposes only to show the amount of expected offset "D" for the current temperature in the field.

#### Notes

Anchor bolts shall be ASTM F1554 all-thread (or an Engineer-approved alternate material) of the grade(s) and diameter(s) specified. The corresponding specified grade of AASHTO M314 anchor bolts may be used in lieu of ASTM F1554.

Side retainers and other steel members required for the bearing assembly shall be included in the cost of Elastomeric Bearing Assembly, Type II.

The  $V_8$ " PTFE sheet shall be bonded directly to the top steel plate with a two-component, medium viscosity epoxy resin, conforming to the requirements of the Federal Specification MMM-A-134, Type I. The bond agent shall be applied on the full area of the contact surfaces.

Bonding of %" PTFE sheet during vulcanizing process will be permitted provided the process and method of adjusting assembly height is approved by the Engineer. See sheet of for additional details of plate cast with beam.

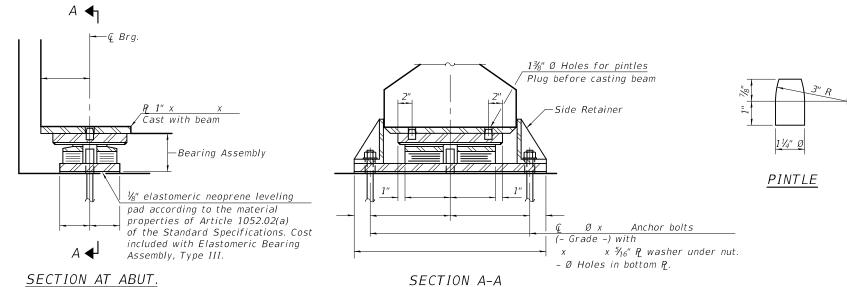
Beams shall be braced for stability during erection and remain braced until deck is poured and cured.

Anchor bolts and side retainers at all supports shall be installed as each member is erected unless an equivalent temporary means of lateral restraint is used.

## BILL OF MATERIAL

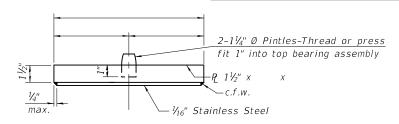
Item	Unit	Total
Elastomeric Bearing Assembly, Type II	Each	
Anchor Bolts	Each	

*PI-2E-2* 2-17-2017 FILE NAME = USER NAME = DESIGNED -REVISED -**BEARING DETAILS** SECTION COUNTY STATE OF ILLINOIS CHECKED -REVISED -STRUCTURE NO. PLOT SCALE = DRAWN REVISED **DEPARTMENT OF TRANSPORTATION** CONTRACT NO. PLOT DATE = CHECKED -REVISED -

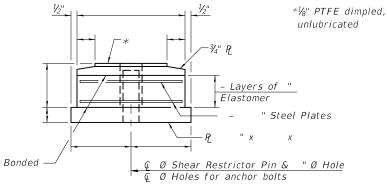


#### SECTION AT ABUT.

# TYPE III ELASTOMERIC EXP. BRG.

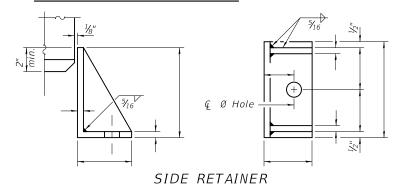


#### TOP BEARING ASSEMBLY



#### BOTTOM BEARING ASSEMBLY

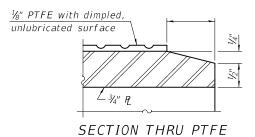
2-17-2017

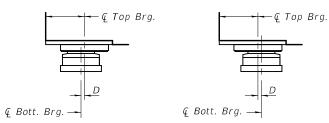


Equivalent rolled angle with stiffeners will be allowed in lieu of welded plates.

# 1/4" Ø Dimples on 1/2" centers $V_{16}$ " deep, or equivalent 1%" PTFE Surface " Ø Shear Restrictor Pin according to the material properties of Article 1083.02(d) " Ø Hole of the Standard Specifications. Press fit pin in bottom P. (Full depth)

#### PLAN-PTFE ELASTOMERIC BRG.





 $D=\frac{1}{8}$ " per each 100' of expansion for every 15° temp. change from the normal temp. of 50°F.

# EXPANSION BEARING ORIENTATION

The above diagrams are for informational purposes only to show the amount of expected offset "D" for the current temperature in the field.

#### Notes:

with beam.

Anchor bolts shall be ASTM F1554 all-thread (or an Engineer-approved alternate material) of the grade(s) and diameter(s) specified. The corresponding specified grade of AASHTO M314 anchor bolts may be used in lieu of ASTM F1554.

Side retainers and other steel members required for the bearing assembly shall be included in the cost of Elastomeric Bearing Assembly, Type III.

The  $\frac{1}{8}$ " PTFE sheet shall be bonded directly to the top steel plate with a two-component, medium viscosity epoxy resin, conforming to the requirements of the Federal Specification MMM-A-134, Type I. The bond agent shall be applied on the full area of the contact surfaces.

Bonding of 1/8" PTFE sheet during vulcanizing process will be permitted provided the process and method of adjusting assembly height is approved by the Engineer. See sheet of for additional details of plate cast

Beams shall be braced for stability during erection and remain braced until deck is poured and cured.

Anchor bolts and side retainers at all supports shall be installed as each member is erected unless an equivalent temporary means of lateral restraint is used.

#### BILL OF MATERIAL

· · · · · · · · · · · · · · · · · · ·		
Item	Unit	Total
Elastomeric Bearing Assembly, Type III	Each	
Anchor Bolts	Each	

COUNTY

CONTRACT NO.

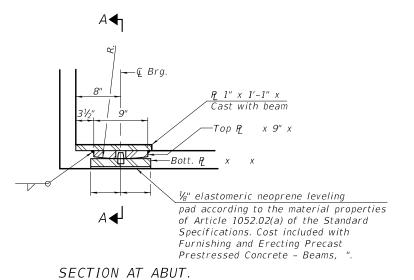
#### PI-2E-3

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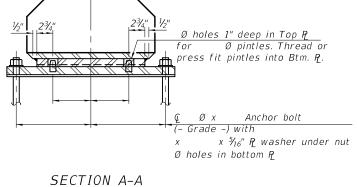
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PLOT DATE =	CHECKED -	REVISED -

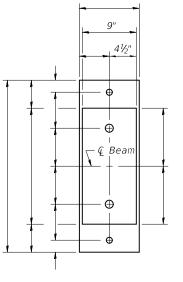
#### STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

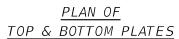
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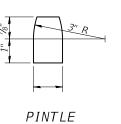


# FIXED BEARING









#### Notes:

with beam.

Anchor bolts shall be ASTM F1554 all-thread (or an Engineer-approved alternate material) of the grade(s) and diameter(s) specified. The corresponding specified grade of AASHTO M314 anchor bolts may be used in lieu of ASTM F1554.

Anchor bolts shall be installed as each member is erected unless an equivalent temporary means of lateral restraint is used.

Beams shall be braced for stability during erection and remain braced until deck is poured and cured. See sheet of for additional details of plate cast

# BILL OF MATERIAL

Item	Unit	Total
Anchor Bolts Ø	Each	

PI-2FB 2-17-2017

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